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IN THE CLAIMS

Claims 1-2 cancelled.

Claim 3 (previously presented) Method for the inhibition of carbon flow
in the glycolytic direction in a cell by increasing the intracellular availability of
trehalose-6-phosphate.

Claim 4 cancelled.

Claim 5 (previously presented) Method for the stimulation of
photosynthesis in a cell by increasing the intracellular availability of
trehalose-6-phosphate.

Claim 6 (previously presented) Method for the stimulation of
sink-related activity by increasing the intracellular availability of
trehalose-6-phosphate.

Claim 7 cancelled.

Claim 8 (previously presented) Method for obtaining a dwarfed
organism by increasing the intracellular availability of trehalose-6-phosphate.

Claim 9 - 20 cancelled.

Claim 21 (currently amended) Method according to claim 3, [5, 6 or 8,]
characterized in that said increase of the intracellular concentration of
trehalose6-phosphate is effected by a decrease in TPP activity.

Claim 22 (previously presented) Method according to claim 21,
characterized in that said decrease in TPP activity is effected by transformation of said
cells with a vector capable of expression of a molecule that inhibits TPP.

Claim 23 (previously presented) Method according to claim 22,
characterized in that said vector comprises the antisense gene of TPS.

Claims 24 - 33, cancelled.

Claim 34 (previously presented) A cloning vector which comprises an
antisense gene for TPP, which upon expression is able to prevent functional activity of
the endogenous TPP gene.

Claim 35 (cancelled).

Claim 36 (previously presented) Plant characterized in that it or one of its
ancestors is transformed with a vector comprising the nucleotide sequence coding for
an antisense gene of TPP, said plant still containing said nucleotide sequence.

Claim 37 - 46 (cancelled)

Claim 47 (previously presented) Method for the prevention of cold sweetening by increasing the intracellular availability of trehalose-6-phosphate.

Claim 48 (previously presented) Method for the inhibition of invertase in beet after harvest by increasing the intracellular availability of trehalose-6phosphate.

Claims 49 - 98 (cancelled).

Please add the following new claims:

Claim 99 (New) Method according to claim 5, characterized in that said increase of the intracellular concentration of trehalose6-phosphate is effected by a decrease in TPP activity.

Claim 100 (New) Method according to claim 6, characterized in that said increase of the intracellular concentration of trehalose6-phosphate is effected by a decrease in TPP activity.

Claim 101 (New) Method according to claim 8, characterized in that said increase of the intracellular concentration of trehalose6-phosphate is effected by a decrease in TPP activity.